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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,164	03/31/2004	Kazuyuki Takizawa	16869P-108100US	9015

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EXAMINER
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CHU, DAVID H

ART UNIT	PAPER NUMBER
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2672

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/816,164	<b>Applicant(s)</b> TAKIZAWA ET AL.	
	<b>Examiner</b> David H. Chu	<b>Art Unit</b> 2672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 31 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 10-13 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election without traverse of claims 1-9, 14 and 15 in the reply filed on December 9, 2005 is acknowledged. Claims 10-13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected subcombinations, there being no allowable claim. Election was made without traverse in reply filed on December 9, 2005.

### ***Claim Objections***

2. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

3. Misnumbered claims 15 and 16 have been renumbered 14 and 15.

4. Claims 2 and 3 are objected to because of the following informalities:

5. Note with respect to line 2 of claim 2, the term "which" should be corrected as "where the."

6. Note with respect to line 2 of claim 3, the term "which" should be corrected as "where the." Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

9. Note with respect to claim 2, the applicant presents a matrix of pixels where the matrix has a short side and a longer side. However, the succeeding description wherein the applicant recites the number of pixels of the shorter side of the matrix being "larger" than the number pixels on the longer side is confusing.

10. The examiner best understood the claim to read as the number of pixels of the shorter side of the matrix being "smaller" than the number pixels on the longer side.

***Claim Rejections - 35 USC § 103***

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 1-6, 9, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi and further in view of Idesawa et al.

13. Note with respect to claims 1-6, 9, 14 and 15, Takahashi discloses a cell phone that comprise of a LCD display having a portrait display screen [0031], frame buffer [0036], and a coordinate rotation/transformation module that performs the necessary rotation according to the physical orientation of the display [0035].

14. The LCD display of Takahashi clearly is either "vertically oblong" or "rectangular" as it has a portrait display screen 1, best shown in FIG. 2 [0031]. Further, the teachings of Takahashi show that the frame buffer is the equivalent to the "image memory" of the applicant, as it stores image data [0036]. Further, the teachings of Takahashi show that the coordinate rotation/transformation module is the equivalent to the "driver " of the applicant, as the coordinate rotation/transformation module reads out the image data in the frame buffer and supply it to the LCD controller to be displayed and is responsible for rotating the image as it reads out data from the frame buffer [0036]. Further, Takahashi teaches a LCD controller that has a function of driving and controlling the LCD in accordance with the frame data [0032]. The LCD controller of Takahashi is clearly the equivalent to the "control portion/controller" of the applicant as data is read from the frame buffer under control of the LCD controller [0032, 0036]. The frame buffer clearly provides storage for a matrix of pixels with at side shorter, which also have smaller number of pixels, as shown in FIG. 3A/B [0036].

15. However, Takahashi does not expressly teach the frame buffer to "store an amount of data larger than that which can be displayed on the image display."

16. Idesawa et al. discloses a handheld device, wherein a portable telephone is one embodiment [0056], that include a image information storage unit for storing image information of an image size larger than an image size of the display [0013].

17. Therefore, at the time of the invention, it would have been obvious to one of an ordinary skill in the art to apply the storage unit teaching of Idesawa et al. to the frame buffer of Takahashi to enable the display of different portions of a large image.

18. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takahashi in view of Idesawa et al, and further in view of Pallakoff.

19. Note with respect to claims 7 and 8, refer to the 103 rejection above with respect to claims 1-6, 14 and 15. Further, Takahashi teaches a "hinge" that enables the cell phone to be foldable, best shown in FIG. 2 [0034].

20. However, Takahashi and Idesawa et al. does not expressly teach the use of a second display.

21. Pallakoff teaches a handheld electronic device, wherein one embodiment include a micro-display in addition to the main display that, when not in use, folds into the body of the device out of view, as shown in FIG. 6A and 6B [0072].

22. Therefore, at the time of the invention, it would have been obvious to combine the second display teachings of Pallakoff and storage unit teachings of Idesawa et al. to the cell phone of Takahashi, to enable simultaneous display of multiple information of various sizes.

***Conclusion***

23. Bum discloses a mobile terminal with rotating means 40 for rotating second casing 20.

24. Olodort et al. discloses a portable communication device with a display 212 in portrait mode that can be rotated to landscape mode.

25. Makela discloses a mobile device with a cover that can be turned 90 degrees.

26. Kim discloses a rotary-keypad for a mobile handset that rotates in accordance to the display orientation.


27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H. Chu whose telephone number is (571) 272-8079. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2672

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DHC

  
RICHARD HJERPE 1/9/06  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600